NC/QC/W-13/2019-20/CR-C1 **Date: 05-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}

Ref.: Material testing/W-13/QC/18-19.

Report Required for: Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Name of the Agency/ Contractor*: M/s M K R Enterprises.

PHYSICAL TESTS ON CEMENT

Grade * : 53.

Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	174 min	Shall not be less than 30 min
2	Final setting time	268 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.96 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.71 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/W-13/2019-20/CR-C2 Date: 09-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M K R Enterprises.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	179 min	Shall not be less than 30 min
2	Final setting time	263 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.01 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.94 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	28.89 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/W-13/2019-20/CR-CA1 Date: 09-04-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M K R Enterprises.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.80	85-100	90 - 100
10 mm	41.45	0 - 20	25 - 55
4.75 mm	8.60	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.15 %	Not to exceed 25 %
2.	Crushing value	28.90 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/W-13/2019-20/CR-CB1 **Date: 18-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M K R Enterprises.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-04-19	18-04-19	07	22500	375	16.67	**16.59**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	380	16.89	

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NC/QC/W-13/2019-20/CR-CB3 Date: 09-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M K R Enterprises.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-05-19	09-05-19	07	22500	395	17.56	**17.63**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	390	17.33	

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NC/QC/W-13/2019-20/CR-CB2a

Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction and Improvements of Culvert in Ramesh road pipeline in Mallasandra ward no 13.}

Ref.: Material testing/W-13/QC/18-19.

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M K R Enterprises.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	13-05-19	28	22500	505	22.44	**22.74**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	520	23.11	

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